



Habitat Characterization



- 1. What are the species you are looking for?
- 2. What are the habitats and what do they look like?
- 3. How do you estimate abundance?





Habitats



Rocky Reef:

Any area with rocky boulders, granite, or pinnacles







Habitats



Soft Bottom:

Any area that is lacking reef material, and consists of soft,

sandy, or muddy substrate





Species Identification



Characteristics to look for:

- o Body Shape
- o Color
- o **Behavior**
- o Habitat









Invertebrates



Sea Cucumber (Parastichopus californicus)







Invertebrates



Box Crab (Lopholithodes foraminatus)

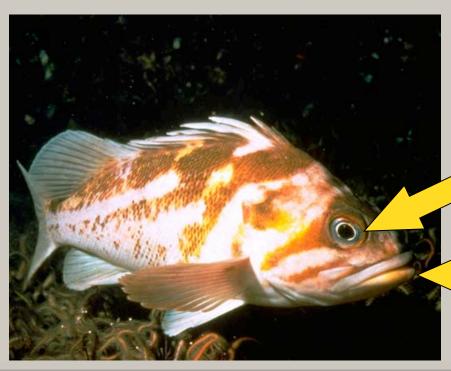


- Slow moving
- •Usually seen over soft bottom habitat





Rockfish (Sebastes sp.)



spiky dorsal spines



Big eyes

Big lips





Juvenile rockfish







Rockfish

< 1 fish length or



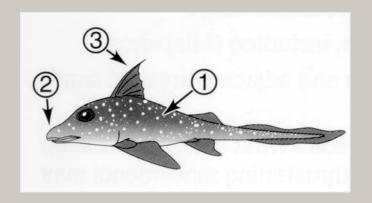




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Ratfish (*Hydrolagus* colliei)

o "wing-like"finso watch for shadowson the bottom



How to rate the abundance

Single 1

Few 2-10

Many 11-500

Abundant 500 and more....



Abundance



Single 1



Few 2-10



Many 11-500



Abundant >500



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Lasers= 20 cm apart





What is it?





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What is it?





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What is it?

















Characterizing habitat

•Gain information about the ecosystem and its inhabitants



•Tracking changes over time





